

**ABSTRACT**

A piezo actuator drive circuit (40) adapted to be sensed in both a charge and voltage mode. The present invention achieves technical advantages as a piezo actuator driver (200) that can be sensed in the charge mode by switching a drive amplifier (42) output to a high impedance state to characterize a load. Preferably, feedback resistors ( $R_3$ ,  $R_4$ ) configured as a resistive divide network are used as a sensor feeding an analog-to-digital converter. A DC restore amplifier (44) forming a portion of a closed loop feedback is selectively reconfigured in the sensing mode to an open loop feedback and forms a portion of the sensing circuitry.